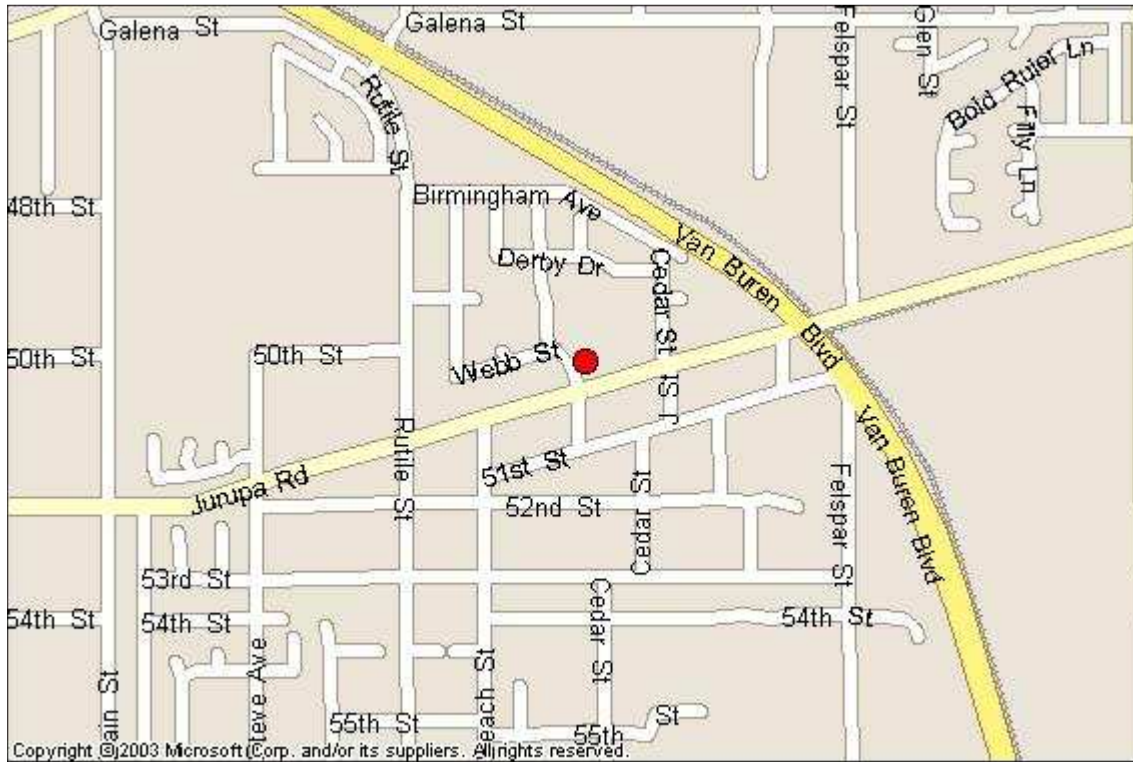


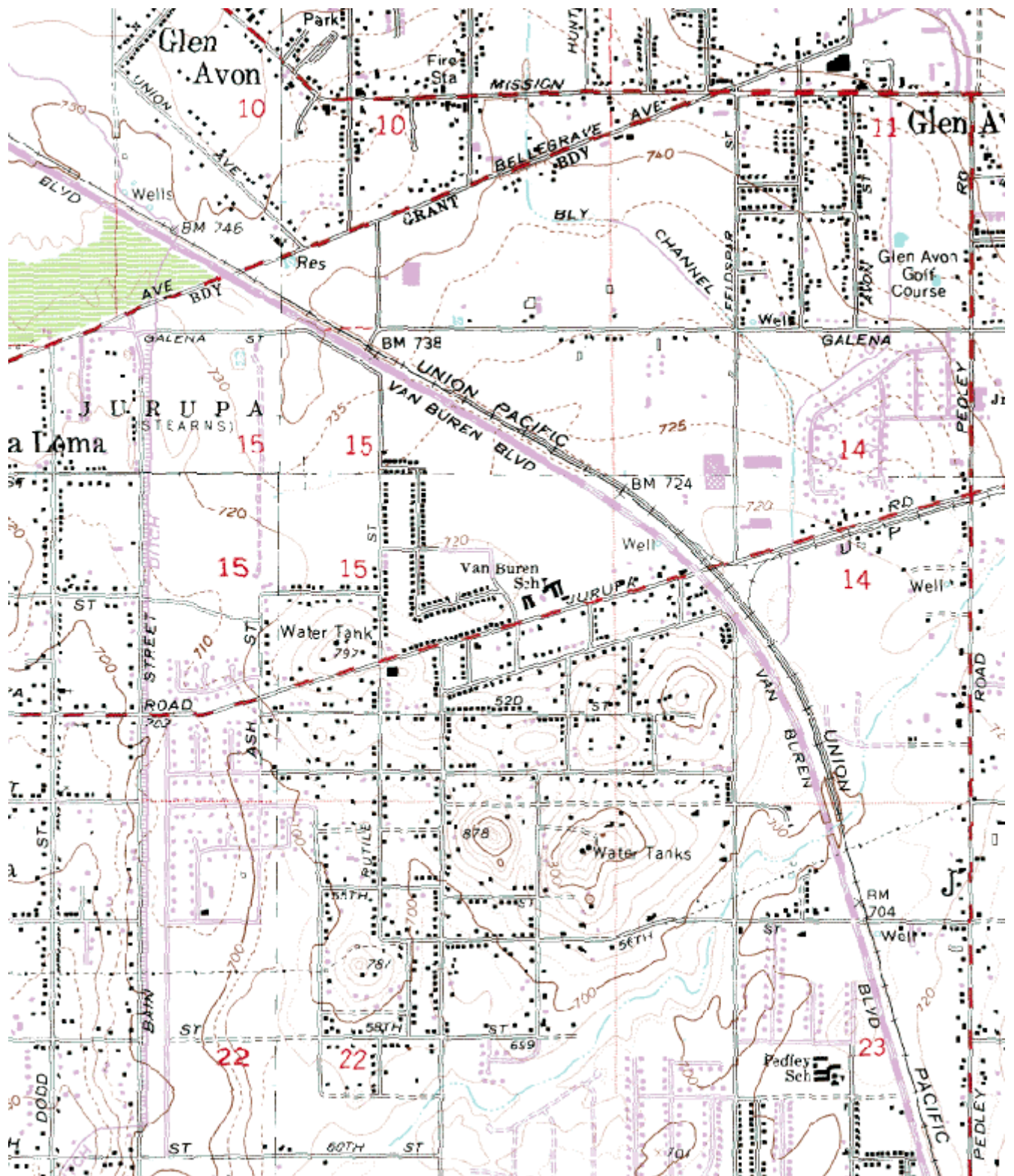
Quality Assurance
Site Survey Report for Mira Loma (Van Buren)

Last updated: May, 2015



AQS ID	ARB Number	Site Start Date	Reporting Agency and Agency Code
060658005	33165	11/2005	South Coast AQMD (061)

Site Address	County	Air Basin	Latitude	Longitude	Elevation
5130 Poinsettia Pl Riverside, CA 92509	Riverside	South Coast	33° 59' 46"N	117° 29' 32"W	220



Detailed Site Information

Local site name	Mira Loma (Van Buren)			
AQS ID	060658005			
GPS coordinates (decimal degrees)	Latitude: 33° 59' 46" Longitude: 117° 29' 32"			
Street Address	5130 Poinsettia Place, Riverside CA			
County	Riverside			
Distance to roadways (meters)	14 – 15			
Traffic count (AADT, year)	< 1,000 / 2012			
Groundcover (e.g. asphalt, dirt, sand)	Gravel			
Representative statistical area name (i.e. MSA, CBSA, other)	40140-Riverside, San Bernardino-Ontario, CA MSA			
Pollutant, POC	Carbon Monoxide, 1	Nitrogen Dioxide, 1	Ozone, 1	PM10, 1
Parameter code	42101	42602	44201	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS
Site type(s)	Population Exposure	Population Exposure	Population Exposure	Highest Concentration
Monitor (type)	SLAMS	SLAMS	SLAMS	SLAMS
Instrument manufacturer and model	Horiba APMA 360	Thermo 42i	API/Teledyne 400E	GMW 1200 SSI
Method code	106	074	087	063, 102
FRM/FEM/ARM/ other	FRM	FRM	FEM	FRM
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	N/A	N/A	SCAQMD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	11/09/2005	11/09/2005	11/09/2005	11/09/2005
Current sampling frequency (e.g. 1:3, continuous)	1:1	1:1	1:1	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	N/A	N/A	1:6
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	4.4	4.4	4.4	2.6
Distance from supporting structure (meters)	1.8	1.8	1.8	1.6
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A

Distance from trees (meters)	36	36	36	36
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	N/A	N/A	N/A	2
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	Teflon	Teflon	Teflon	N/A
Residence time for reactive gases (seconds)	5.6	6.1	6.4	N/A
Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	11/20/2014	11/20/2014	11/20/2014	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	05/30/2014, 11/14/2014

Pollutant, POC	Continuous PM2.5, 3	24 Hour PM2.5, 1	Continuous PM10, 3	24 Hour PM2.5, 2
Parameter code	88101	See Table 26	81102	See Table 26
Basic monitoring objective(s)	NAAQS	NAAQS	NAAQS	NAAQS

Site type(s)	Highest Concentration	Highest Concentration	Highest Concentration	Highest Concentration
Monitor (type)	SLAMS	SLAMS	SLAMS	SLAMS/QA Collocated
Instrument manufacturer and model	Met One BAM 1020	Andersen RAAS PM2.5	Met One BAM 1020	Andersen RAAS PM2.5
Method code	170	780, 120	122	780, 120
FRM/FEM/ARM/ other	FEM	FRM	FEM	FRM
Collecting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	SCAQMD	N/A	SCAQMD
Reporting Agency	SCAQMD	SCAQMD	SCAQMD	SCAQMD
Spatial scale (e.g. micro, neighborhood)	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring start date (MM/DD/YYYY)	11/09/2005	12/07/2005	03/08/2010	03/01/2012
Current sampling frequency (e.g. 1:3, continuous)	1:1	1:1	1:1	1:6
Calculated sampling frequency (e.g. 1:3/1:1)	N/A	1:3	N/A	1:6
Sampling season (MM/DD-MM/DD)	01/01-12/31	01/01-12/31	01/01-12/31	01/01-12/31
Probe height (meters)	4.5	2.9	4.5	2.9
Distance from supporting structure (meters)	1.9	1.9	1.9	1.9
Distance from obstructions on roof (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof (meters)	N/A	N/A	N/A	N/A
Distance from trees (meters)	N/A	N/A	N/A	N/A
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between collocated monitors (meters)	2	2	2	2
Unrestricted airflow (degrees)	360°	360°	360°	360°
Probe material for reactive gases (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	
Residence time for reactive gases (seconds)	N/A	N/A	N/A	N/A

Will there be changes within the next 18 months? (Y/N)	No	No	No	No
Is it suitable for comparison against the annual PM2.5? (Y/N)	No, unless the manual sampler has missing data.	Yes	No	Yes
Frequency of flow rate verification for manual PM samplers	N/A	Bi-Weekly	N/A	Bi-Weekly
Frequency of flow rate verification for automated PM analyzers	Monthly	N/A	Monthly	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	06/25/2014, 12/05/2014	05/30/2014, 11/14/2014	06/25/2014, 12/05/2014	05/30/2014, 11/14/2014

**Mira Loma (Van Buren)
Site Photos**



Looking North from the probe.



Looking East from the probe.



Looking South from the probe.



Looking West from the probe.

**Mira Loma (Van Buren)
Site Photos (Cont.)**



Looking at the probe from the North.



Looking at the probe from the East.



Looking at the probe from the South.



Looking at the probe from the West.